SKKD 170F



SEMIPACK[®] 2

Fast Diode Modules

SKKD 170F

Features

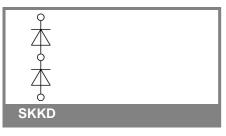
- CAL (controlled axial lifetime) technology, patent No. DE 43 10 44
- Heat transfer through ceramic isolated metal baseplate
- Very short recovery times
- Very soft recovery over the whole current range
- Low switching losses
- UL recognized, file no. E 63532

Typical Applications

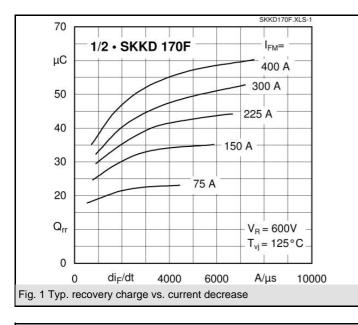
- Self-commutated inverters
- DC choppers
- AC motor speed control
- Inductive heating
- Uninterruptible power supplies
- Electronic welders
- General power switching applications

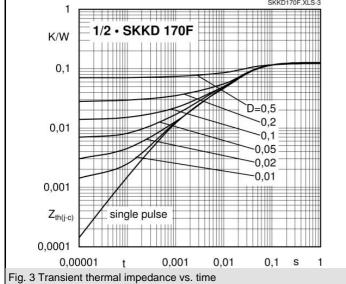
V _{RSM}	V _{RRM}	I _{FRMS} = 320 A (maximum value for continuous operation)		
V	V	I _{FAV} = 170 A (sin. 180; T _c = 85 °C)		
1200	1200	SKKD 170F12		

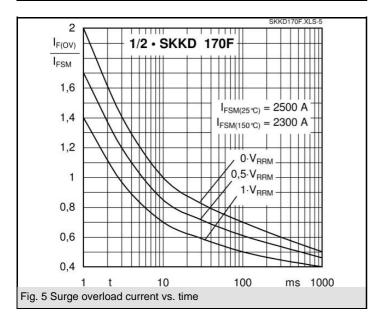
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 85 (100) °C	170 (145)	А
I _{FSM}	T _{vi} = 25 °C; 10 ms	2500	А
	T _{vi} = 150 °C; 10 ms	2300	А
i²t	T _{vj} = 25 °C; 8,3 10 ms	31250	A²s
	T _{vj} = 150 °C; 8,3 10 ms	26450	A²s
V _F	T _{vj} = 25 °C; I _F = 170 A	max. 2	V
V _(TO)	T _{vj} = 150 °C	max. 1,2	V
r _T	T _{vj} = 150 °C	max. 3,5	mΩ
I _{RD}	$T_{vj} = 25 \text{ °C}; V_{RD} = V_{RRM}$	max. 1	mA
I _{RD}	T _{vj} = 150 °C; V _{RD} = V _{RRM}	max. 60	mA
Q _{rr}	T _{vi} = 125 °C, I _F = 170 A,	28	μC
I _{RM}	-di/dt = 1000 A/µs, V _R = 600 V	80	А
t _{rr}		960	ns
E _{rr}		5	mJ
R _{th(j-c)}	per diode / per module	0,14 / 0,07	K/W
R _{th(c-s)}	per diode / per module	0,1 / 0,05	K/W
T _{vj}		- 40 + 150	°C
T _{stg}		- 40 + 125	°C
V _{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	4800 / 4000	٧~
M _s	to heatsink	5 ± 15 %	Nm
M _t	to terminal	5 ± 15 %	Nm
а		5 * 9,81	m/s²
m	approx.	153	g
Case		A 53	

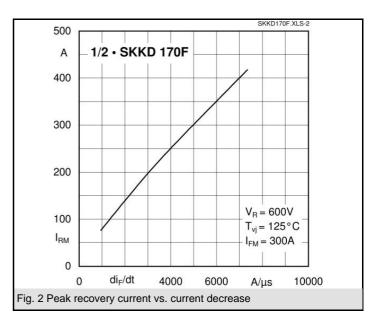


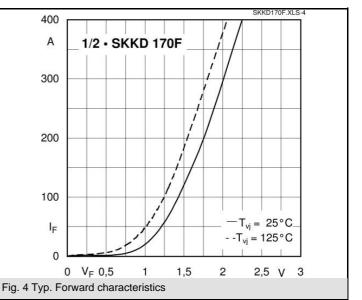
I HYRISTOR, MC



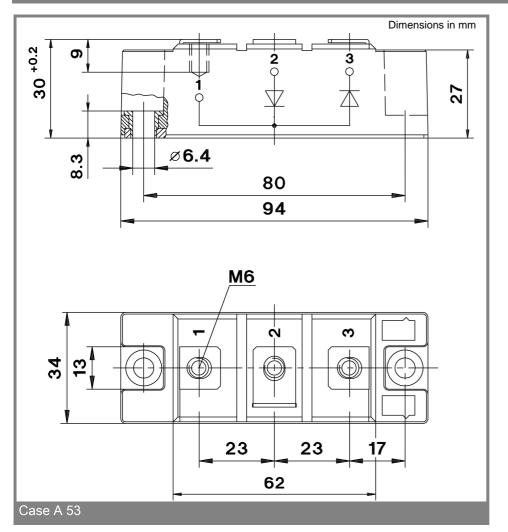








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